

12 February 1993

GUIDANCE CONTROL SYSTEMS

(C-141)

1. Objective. As prescribed in AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. Air National Guard (ANG) Regulation 66-14 contains ANG policy and procedural guidance for the Guidance Control Systems work center. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, 16 May 88. This ANGMS is a result of a functional review.

3. Applicability. This standard applies to ANG C-141 Air Mobility Command gained flying units. This standard applies only to peacetime operations.

4. Standard Data:

- a. Classification.** Type III.
- b. Approval Date.** 4 Jan 93.
- c. Man-Hour Data Source.** Operational Audit (historical record and technical estimate techniques).
- d. Standard Man-Hour Equation.** $Y = 53.87 + 3.421X_1 + 16.97X_2$.
- e. Workload Factor:**
 - (1) Title:**
 - (a) X_1 .** A Programmed Flying Hour.
 - (b) X_2 .** A C-141 Aircraft Authorized.
 - (2) Definition:**
 - (a) X_1 .** The average monthly programmed flying hours.
 - (b) X_2 .** The average monthly C-141 aircraft authorized.
 - (3) Source of Count:**
 - (a) X_1 .** USAF Program Document (PD), Volume II, maintained by NGB/FM.
 - (b) X_2 .** USAF Program Document (PD), Volume II, maintained by NGB/FM.

5. Application Instructions:

- a.** The valid man-hour range for this ANGMS is 1018.76 through 1697.94. Should the extrapolation limits be exceeded, see AFR 26-1, Volume III, paragraph 1-20 for guidance.
- b.** The AF Form 1113, Standard Manpower Table, is an aggregate of total manpower by specialty title and Air Force Specialty Code (AFSC). The applicable instructions are as follows:
 - (1)** Determine the values for the two workload factors (WLF) identified in paragraph 4e.
 - (2)** Substitute the appropriate WLF value into the man-hour equation for X_1 and X_2 .
 - (3)** Divide the total man-hours by the current civilian man-hour availability factor to determine total requirements.
 - (4)** Find the column in which the total number of authorizations fall; read up to determine manpower by AFSC.
- c.** Fractional manpower requirements resulting from application of this standard will not be aggregated.

6. Statement of Conditions. This work center's normal hours of operation are 8 hours a day, 5 days a week. There are no other standard of living constraints which affect the daily operation of this work center.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

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WORK CENTER DESCRIPTION**Guidance Control Systems****(C-141)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. MAINTAINS AIRCRAFT SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs on-equipment.

1.1.1. MAINTAINS AIR FRAME SYSTEM.

1.1.2. MAINTAINS FLIGHT STATION.

1.1.3. MAINTAINS LANDING GEAR.

1.1.4. MAINTAINS FLIGHT CONTROL SYSTEM.

1.1.5. MAINTAINS ENGINE INSTRUMENT CONTROL.

1.1.6. MAINTAINS AUXILIARY POWER PLANT SYSTEM.

1.1.7. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL.

1.1.8. MAINTAINS ELECTRICAL POWER SUPPLY SYSTEM.

1.1.9. MAINTAINS HYDRAULIC SYSTEM.

1.1.10. MAINTAINS FUEL INSTRUMENT SYSTEM.

1.1.11. MAINTAINS LIQUID OXYGEN (LOX) SYSTEM.

1.1.12. MAINTAINS MISCELLANEOUS UTILITIES.

1.1.13. MAINTAINS FLIGHT INSTRUMENT SYSTEM.

1.1.14. MAINTAINS PITOT STATIC SYSTEM.

1.1.15. MAINTAINS AIRBORNE FLIGHT RECORDER SYSTEM.

1.1.16. MAINTAINS MISCELLANEOUS INSTRUMENT.

1.1.17. MAINTAINS FUEL SAVINGS ADVISORY SYSTEM.

1.1.18. MAINTAINS AUTOMATIC FLIGHT CONTROL SYSTEM.

1.1.19. MAINTAINS AUTO PILOT COMPUTER.

1.1.20. MAINTAINS AUTO PILOT NEW COMPUTER.

1.1.21. MAINTAINS C-12 COMPASS.

1.1.22. MAINTAINS ALL-WEATHER LANDING SYSTEM (AWLS) COMPONENT.

1.1.23. MAINTAINS ATTITUDE HEADING AND REFERENCE SYSTEM.

1.1.24. MAINTAINS DIGITAL FLIGHT DATA RECORDER SYSTEM.

1.1.25. MAINTAINS FLIGHT DIRECTOR SYSTEM.

1.1.26. MAINTAINS AUTOMATIC THROTTLE SYSTEM.

1.1.27. MAINTAINS VERTICAL NAVIGATION SYSTEM.

1.1.28. MAINTAINS MASTER CAUTION SYSTEM.

1.1.29. MAINTAINS UNDERWATER ACOUSTIC LOCATOR SYSTEM.

1.1.30. MAINTAINS RADIO NAVIGATION SYSTEM.

1.1.31. MAINTAINS RADAR ALTIMETER SYSTEM.

1.1.32. MAINTAINS INERTIAL NAVIGATIONS SYSTEM.

1.2. PERFORMS INSPECTION. Performs special or phase inspection and performs home station check.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE/HOURLY INSPECTION.

1.2.3. PERFORMS HOME STATION CHECK.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRCRAFT SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs off-equipment.

2.1.1. MAINTAINS AIR FRAME SYSTEM.

2.1.2. MAINTAINS FLIGHT STATION.

2.1.3. MAINTAINS LANDING GEAR.

2.1.4. MAINTAINS FLIGHT CONTROL SYSTEM.

2.1.5. MAINTAINS ENGINE INSTRUMENT.

2.1.6. MAINTAINS AUXILIARY POWER PLAN SYSTEM.

2.1.7. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL SYSTEM.

2.1.8. MAINTAINS HYDRAULIC SYSTEM.

2.1.9. MAINTAINS FUEL INSTRUMENT SYSTEM.

2.1.10. MAINTAINS LOX SYSTEM.

2.1.11. MAINTAINS MISCELLANEOUS UTILITIES.

2.1.12. MAINTAINS FLIGHT INSTRUMENT SYSTEM.

2.1.13. MAINTAINS PITOT STATIC SYSTEM.

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2.1.30. MAINTAINS RADAR ALTIMETER SYSTEM.

2.1.31. MAINTAINS INERTIAL NAVIGATIONS SYSTEM.

3. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance on or off the aircraft in accordance with applicable TCTO and completes documentation.

4. PERIODIC MAINTENANCE OF AVIONICS EQUIPMENT IN BASE SUPPLY. Performs periodic functional check or calibration of equipment stored in Base Supply to maintain shelf life and to ensure serviceability before use.

5. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

6. TORQUE WRENCH CALIBRATION. Performs torque wrench calibration.

7. NONPOWERED AEROSPACE GROUND EQUIPMENT. Maintains non-powered aerospace ground equipment.

8. UNIT TRAINING ASSEMBLY (UTA) AND MOBILITY REQUIREMENT. Performs the planning or scheduling task associated with preparation for UTA weekend and mobility requirement.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Guidance Control System/24210A			1018.76 - 1697.94								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Avionic Guidance and Control System	455X1A	CIV	7	8	9	10	11				
TOTAL			7	8	9	10	11				
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											